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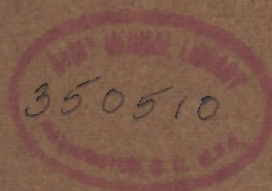
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Report of Work for the
RELIEF AND CONTROL OF UNCINARIASIS
IN BRITISH GUIANA

Up to March 31, 1915.

THE ROCKEFELLER FOUNDATION
INTERNATIONAL HEALTH COMMISSION

61 BROADWAY, NEW YORK, U. S. A.



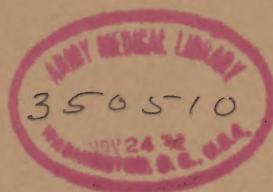
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Report on Work for the
RELIEF AND CONTROL OF UNCINARIASIS IN BRITISH GUIANA
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BRITISH GUIANA

1. Plan of Work. All work in British Guiana is conducted on the intensive plan, which contemplates, as nearly as practicable, the complete relief and control of uncinariasis within restricted areas.

2. Extent of Operations. Work in the Peters' Hall District, lying on the East Bank of the Demerara river, near Georgetown, terminated during the quarter ending March 31, 1915; and operations in three areas (A, B, C) on the West Bank were begun. The time spent in each of these districts is shown below:

	Date Work Opened	Date Work Closed
<u>EAST BANK:</u>		
Area A	Nov. 1914	March 30, 1915
" B	March 1914	Jan. 23, 1915
" C	Sept. 1914	Jan. 16, 1915
<u>WEST BANK:</u>		
Area A	Feb. 1, 1915	-----
" B	Jan. 9, 1915	-----
" C	March 24, 1915	-----

In comparing the results in the areas on the West Bank with those in the areas on the East Bank, it should be borne in mind that work on the West Bank is still in progress.

I. RESULTS BY AREAS UP TO MARCH 31, 1915

1. Locating the Infected. The census of persons living on both the East and West Banks, up to March 31, 1915, was 19,713. Of these, 17,438, or 88.5 per cent., have been microscopically examined for uncinariasis; 10,653, or 61.1 per cent., of those examined have been found infected; and first treatment has been given to 8,827, or 82.9 per cent., of those infected.

Table 1 exhibits these results in detail for each of the six areas where work has been in progress:

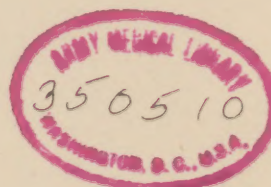


Table 1	GRAND TOTAL		EAST BANK								WEST BANK							
			TOTAL		Area A		Area B		Area C		TOTAL		Area A		Area B		Area C	
	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.
1. Census	19712	----	10380	----	3928	----	3532	----	2832	----	9332	----	4002	----	4954	----	376	----
2. Examined...	17438	88.5	9537	91.9	3575	89.7	3206	90.0	2758	97.3	7901	84.7	3180	79.5	4623	93.3	98	26.1
3. Infected...	10652	51.1	5590	56.6	1759	49.3	1918	59.8	1913	69.4	5062	54.1	2009	53.2	2981	54.5	72	73/5
4. Given First Treatment	8827	82.9	5180	92.3	1514	86.1	1876	97.8	1770	92.5	3567	72.4	1300	64.7	2367	79.4	---	----

2. Treating the Infected Until Cured. The number of persons found infected, up to March 31, 1915, was 10,652. Of these, 5,828, or 54.7 per cent., have been shown by microscopic re-examination to have been cured. The remaining 4,824, or 45.3 per cent., consist of persons who remain under treatment (2,412, or 22.6%); of persons who have removed from the areas (1,957, or 18.4%); of persons who could not be treated (447, or 4.2%) but who remain in the district as foci of infection; and of persons who died (8, or .08%) but whose death was not connected with thymol administration.

Table 2 gives these figures in detail for each area:

Table 2	GRAND TOTAL		EAST BANK								WEST BANK							
			TOTAL		Area A		Area B		Area C		TOTAL		Area A		Area B		Area C	
	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.	No.	P.C.
1. Infected...	10652	----	5590	----	1759	----	1918	----	1913	----	5062	----	2009	----	2981	----	72	----
2. Cured.....	5828	54.7	4109	73.5	1121	63.7	1427	74.4	1561	81.6	1719	34.0	409	20.4	1310	43.9	---	----
3. Under treatment	2412	22.6	484	8.7	178	10.0	223	11.6	85	4.5	1928	38.1	886	44.1	1043	35.0	---	----
4. Removed from area	957	18.4	710	12.7	320	18.2	204	10.6	186	9.7	1247	24.6	663	33.0	512	17.2	72	100.
5. Not treated	447	4.2	280	5.0	142	8.1	57	3.0	81	4.2	167	3.3	51	2.5	116	3.9	---	----
6. Died*.....	8	.08	7	.1	---	----	7	.4	---	----	1	.02	---	----	1	.03	---	----

3. Per Capita Cost of Examinations. Up to March 31, 1915, a total of \$10,963.82 had been expended in British Guiana for examining 17,438 persons. From this the per capita cost of examinations is found to be \$.62. Table 3 shows in detail the figures for each area:

*Death not connected with thymol administration.

Table 3	Cost Per Person Examined	Amount Expended	Number of Persons Examined
GRAND TOTAL,	\$.62	\$10,963.62	17,438
EAST BANK: Total .....	.90	8,545.39	9,537
Area A .....	.53	1,900.04	3,575
" B	1.24	3,964.33	3,206
" C .....	.45	1,235.07	2,756
Supervision by Dr. Howard	----	1,445.95	-----
WEST BANK: Total .....	.31	2,418.23	7,901
Area A .....	.32	1,004.14	3,180
" B .....	.30	1,386.01	4,623
" C .....	.29	28.08	98

4. Educational Work. Table 4 exhibits the progress made in educational work. It indicates that a total of 34 lectures have been given (24 to public; 4 to school; and 6 to special audiences); and that these 34 lectures have been attended by 8,925 persons (4,618 at public; 692 at school; and 3,615 at special lectures). Based on the census of these districts, of 19,712 persons, we find that 8,925, or 45.3 per cent., have attended lectures and been educated in the measures necessary to relieve and control uncinariasis:

Table 4	TOTAL		PUBLIC		SCHOOL		SPECIAL	
	No.	Atten- dance	No.	Atten- dance	No.	Atten- dance	No.	Atten- dance
TOTAL	34	8925	24	4618	4	692	6	3615
EAST BANK: Total	26	5270	17	1638	4	692	5	2940
Area A	2	440	--	----	--	----	2	440
Area B	13	3512	10	1400	2	312	1	1800
Area C	11	1318	7	238	2	380	2	700
WEST BANK: Total	8	3655	7	2980	--	----	1	675
Area A	3	1234	3	1234	--	----	--	----
Area B	4	1989	3	1314	--	----	1	675
Area C	1	432	1	432	--	----	--	----

5. Preventive Measures. Measures for the prevention of uncinariasis are conducted by a staff of sanitary inspectors appointed by the government. The type of latrine adopted is the ordinary pit privy with a bank of clay around the top of the pit to keep out surface waters. The dimensions of the pit are three feet long, two feet wide, two and one-half feet deep. The pit is dug shallow to prevent the tapping of ground water, which rises

very high during the wet seasons.

In Table 5 the symbol D indicates a privy where night soil falls on the ground but is protected from flies, fowls, and animals; E, one built for concealment only, with no protection from flies, fowls, and animals; and F represents no latrine accommodation.

The improvement in sanitation of areas A, B and C on the East Bank is not indicated clearly in this table because of an error in making the initial sanitary survey. The number of homes inspected should have been reported as 2638, instead of 2130. On the supposition, however, that the incorrect figures afford a true average, we find that the percentage of homes with latrine accommodation was raised from 40.3% when the work began to 66.6% when it ended, - an increase of 26.4%.

The initial sanitary survey on the West Bank is still in progress. From figures now available the number of homes with privies is shown to be 1,380, or 45.8% of the total:

Table 5	Final Inspection							Initial Inspection						
	Type of Privy							Type of Privy						
	Total	A	B	C	D	E	F	Total	A	B	C	D	E	F
TOTAL														
EAST BANK: Total	2638				1440	317	881	2130*				307	546	1267
Area A								844*				129	266	449
" B								525*				157	93	275
" C								751				21	187	543
WEST BANK: Total								2789				1167	113	1509
Area A								1149				630	56	463
" B								1499				536	47	916
" C								141				1	10	130

II. RESULTS BY AREAS FOR FIRST QUARTER, 1915

1. Locating and Treating the Infected. The report for the first quarter 1915 shows that a census was taken of 9,334 additional persons; that 7,957

 *Figures incorrect; total for East Bank should have been 2,638; for Area A, 909; for Area B, 978.

persons were examined; 5,090 found infected; 3,767 given first treatment; and 2,127 cured. Table 6 gives figures for work accomplished in each of the six areas during the quarter ending March 31, 1915:

Table 6	TOTAL	EAST BANK				WEST BANK			
		Total	Area A	Area B	Area C	Total	Area A	Area B	Area C
1. Census	9334	2	2	---	---	9332	4002	4954	376
2. Examined	7957	56	56	---	---	7901	3180	4623	98
3. Infected	5090	28	28	---	---	5062	2009	2981	72
4. Given first treatment..	3767	100	99	---	1	3667	1300	2367	--
5. Cured	2127	408	344	12	52	1719	409	1310	--

2. Per Capita Cost of Examinations. The per capita cost of examinations during the quarter ending March 31, 1915, was \$.36. The amount expended was \$2,834.92; the number of persons examined, 7,957. Table 7 itemizes these figures for each area:

Table 7	Cost Per Person Examined	Amount Expended	Number of Persons Examined
TOTAL	\$.36	\$2,834.92	7,957
EAST BANK: Total	7.44	416.69	56
Area A	7.44	416.69	56
" B	--	--	--
" C	--	--	--
WEST BANK: Total .....	.31	2,418.23	7,901
Area A .....	.32	1,004.14	3,180
" B .....	.30	1,386.01	4,623
" C .....	.29	28.08	98

3. Educational Work. There were eight lectures delivered during the quarter to a total of 3,655 persons. Seven of these lectures were public, attended by 2,980 persons; and one was to a special audience of 675 persons. A report on the educational work in each area is given in Table 8:

Table 8	TOTAL		Kind of Lectures					
			Public		School		Special	
	No.	Atten- dance	No.	Atten- dance	No.	Atten- dance	No.	Atten- dance
TOTAL	8	3655	7	2980	--	----	1	675
EAST BANK: Total	-	--	-	--	--	----	-	--
Area A	-	--	-	--	--	----	-	--
" B	-	--	-	--	--	----	-	--
" C	-	--	-	--	--	----	-	--
WEST BANK: Total	8	3655	7	2980	--	----	1	675
Area A	3	1234	3	1234	--	----	-	--
" B	4	1989	3	1314	--	----	1	675
" C	1	432	1	432	--	----	-	--

III. RESULTS BY VILLAGES UP TO MARCH 31, 1915

1. Locating the Infected. Table 9 shows by villages the progress made in examining and treating the inhabitants. This table gives the supporting figures upon which Table 1 is based:

Table 9	Census	Examined	Infected	Given First Treatment
GRAND TOTAL	19712	17438	10652	8827
EAST BANK: Total	10380	9537	5590	5160
Area A: Total	3986	3575	1759	1514
LaPenitence	1487	1246	581	516
Alexander Ville	1905	1791	860	745
Meadow Bank	520	467	277	218
Houston Front	74	71	41	35
Area B: Total	3562	3206	1918	1876
Agricola	1330	1210	635	621
Eccles	343	333	261	256
Bagotstown	780	681	393	383
Peters Hall	718	646	386	376
Providence Pasture	389	336	243	240
Area C: Total	2832	2756	1913	1770
Mocha	256	244	148	140
Arcadia	189	176	124	110
Covent Garden	359	348	223	208
Prospect	82	80	41	38
Diamond Front	80	78	56	50
Big Grove	1129	1111	829	767
Little Grove	399	386	281	260
Craig	310	305	191	179
Hope	28	28	20	18

Table 9 (continued)	Census	Examined	Infected	Given First Treatment
WEST BANK: Total	9332	7901	5062	3667
Area A: Total	4002	3180	2009	1300
Best	--	--	--	--
Vreed-en-Hoop	660	86	53	--
Pouderoyen ..	1263	1109	641	412
Goed Fortuin	1060	1042	654	539
LaGrange	1019	943	661	349
Area B: Total	4954	4623	2981	2367
Bagotville	1972	1846	1194	1039
North Bagotville	917	875	574	493
South Bagotville	1055	971	620	546
Canal No. 1	1641	1491	1025	650
L'Heureuse Adventure..	190	178	116	109
Vaux Hall	317	301	189	182
Beauvosin	141	124	78	67
L'Oratoire	119	117	65	55
Bordeaux	42	41	31	27
Genieve	81	73	58	42
Mesdelices	60	56	48	41
Jacoba Constantia	77	74	54	51
Fitico	152	133	96	76
Java	18	14	9	--
DeRidder's Faith	75	62	45	--
Sans Souci	99	95	69	--
Studley Park	33	29	21	--
DeKinderen	--	--	--	--
The Lock	237	194	146	--
Toe Vlucht	88	86	50	45
LaRetraite	351	340	175	155
Stanleytown	902	860	537	478
Area C: Total	376	98	72	--
Good Intent	--	--	--	--
Sisters	--	--	--	--
Vive le Force	227	98	72	--
Potosi	74	--	--	--
Free and Easy	75	--	--	--

2. Treating the Infected Until Cured. Table 10 shows by villages the progress made up to March 31, 1915, in curing the infected persons. The supporting figures for Table 2 are given in this table:

Table 10	Infected	Cured	Under Treatment	Removed From Area	Not Treated	Died*
GRAND TOTAL	10652	5828	2412	1957	447	8
EAST BANK: Total	5590	4109	484	710	280	7
Area A: Total	1759	1121	176	320	142	-
LaPenitence	581	339	87	139	36	-
Alexander Ville	860	543	109	132	76	-
Meadow Bank	277	208	--	42	27	-
Houston Front	41	31	--	7	3	-
Area B: Total	1918	1427	223	204	57	7
Agricola	635	485	50	74	24	2
Eccles	261	210	25	22	3	1
Bagotstown	393	282	40	58	11	2
Peters Hall	386	279	66	27	13	1
Providence Pasture	243	171	42	23	6	1
Area C: Total	1913	1561	85	186	81	-
Mocha	148	134	--	8	5	-
Arcadia	124	106	--	5	13	-
Covent Garden	223	196	--	21	6	-
Prospect	41	36	--	4	1	--
Diamond Front	56	46	1	3	5	-
Big Grove	829	622	75	104	28	-
Little Grove	281	239	8	22	12	-
Craig	191	165	1	18	7	-
Hope	20	17	--	1	2	-
WEST BANK: Total	5062	1719	1928	1247	167	1
Area A: Total	2009	409	886	663	51	-
Best	--	--	--	--	--	-
Vreed-en-Hoop	53	--	--	53	--	-
Pouderoyen	641	98	314	210	19	-
Goed Fortuin	654	295	239	88	32	-
LaGrange	661	16	333	312	--	-
Area B: Total	2981	1310	1042	512	116	1
Bagotville	1194	587	438	114	54	1
North Bagotville	574	280	207	58	29	-
South Bagotville	620	307	231	56	25	1
Canal No. 1	1026	279	370	345	31	-
L'Heureuse Adventure..	116	56	53	3	4	-
Vaux Hall	189	99	83	4	3	-
Beauvosin	78	24	42	7	5	-
L'Oratoire	65	29	26	2	5	-
Bordeaux	31	15	12	4	-	-
Genieve	58	8	34	16	-	-
Mesdelices	48	4	27	5	1	-
Jacoba Constantia	54	18	33	-	3	-
Fitico	96	16	60	13	7	-
Java	9	--	--	9	-	-
DeRidder's Faith	45	--	--	45	-	-
Sans Souci	69	--	--	69	-	-
Studley Park	21	--	--	21	-	-
DeKinderen	--	--	--	--	-	-
The Lock	146	--	--	146	-	-

*Death not connected with thymol administration.

Table 10 (continued)	Infected	Cured	Under Treatment	Removed From Area	Not Treated	Died*
<u>WEST BANK (continued)</u>						
<u>Area B (continued)</u>						
Toe Vlugt	50	40	5	2	3	-
LaRetraite	175	102	53	15	5	-
Stanleytown	537	302	176	38	23	-
<u>Area C: Total</u>	<u>72</u>	<u>--</u>	<u>--</u>	<u>72</u>	<u>--</u>	<u>-</u>
Good Intent	--	--	--	--	--	-
Sisters	--	--	--	--	--	-
Vive le Force	72	--	--	72	--	-
Potosi	--	--	--	--	--	-
Free and Easy	--	--	--	--	--	-

IV. RESULTS BY VILLAGES FOR FIRST QUARTER, 1915

1. Locating and Treating the Infected. Table 11 gives figures by villages showing what was done during the first quarter 1915 in examining for, treating, and curing uncinariasis.

Table 11	Census	Examined	Infected	Treated	Cured
GRAND TOTAL	9334	7957	5090	3767	2127
EAST BANK: Total	2	56	28	100	408
<u>Area A: Total</u>	<u>2</u>	<u>56</u>	<u>28</u>	<u>99</u>	<u>344</u>
LaPenitence	1	4	3	47	147
Alexander Ville	1	51	24	52	194
Meadow Bank	-	--	--	--	--
Houston Front	-	1	1	--	3
<u>Area B: Total</u>	<u>-</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>12</u>
Agriocla	-	--	--	--	5
Eccles	-	--	--	--	--
Bagotstown	-	--	--	--	3
Peters Hall	-	--	--	--	1
Providence Pasture	-	--	--	--	3
<u>Area C: Total</u>	<u>-</u>	<u>--</u>	<u>--</u>	<u>1</u>	<u>52</u>
Mocha	-	--	--	--	2
Arcadia	-	--	--	--	--
Covent Garden	-	--	--	--	--
Prospect	-	--	--	--	--
Diamond Front	-	--	--	--	--
Big Grove	-	--	--	1	4
Little Grove	-	--	--	--	35
Craig	-	--	--	--	10
Hope	-	--	--	--	1

*Death not connected with thymol administration.

Table 11 (continued)	Census	Examined	Infected	Treated	Cured
WEST BANK: Total	9332	7901	5062	3667	1719
Area A: Total	4002	3180	2009	1300	409
Best	--	--	--	--	--
Vreen-en-Hoop	660	86	53	--	--
Pouderoyen	1263	1109	641	412	98
Goed Fortuin	1060	1042	654	539	295
LaGrange	1019	943	661	349	16
Area B: Total	4954	4623	2981	2367	1310
Bagotville	1972	1846	1194	1039	587
North Bagotville	917	875	574	493	280
South Bagotville	1055	971	620	546	307
Canal No. 1	1641	1491	1025	650	279
L'Heureuse Adventure ...	190	178	116	109	56
Vaux Hall	317	301	189	182	99
Beauvosin	141	124	78	67	24
L'Oratoire	119	117	65	55	29
Bordeaux	42	41	31	27	15
Genieve	81	73	58	42	8
Mesdelices	60	56	48	41	14
Jacoba Constantia	77	74	54	51	18
Fitico	152	133	96	76	16
Java	18	14	8	--	--
DeRidder's Faith	75	62	45	--	--
Sans Souci	89	95	69	--	--
Studley Park	33	29	21	--	--
DeKinderen	--	--	--	--	--
The Lock	237	194	146	--	--
Toe Vlucht	88	85	50	45	40
LaRetraite	351	340	175	155	102
Stanleytown	902	860	537	478	302
Area C: Total	376	98	72	--	--
Good Intent	--	--	--	--	--
Sisters	--	--	--	--	--
Vive le Force	227	98	72	--	--
Potosi	74	--	--	--	--
Free and Easy	75	--	--	--	--

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